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## **Philosophical Transactions**

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*The Profile and Ground-Plot of the Concave in Pen Park,  
before described.*

A	The Superficies of the Earth.	G	Two small Rocks that appear above the water.
B	The old Lead-Oar Pit.	H	The upper part of the Water.
C	The Tunnel or Passage down.	I	The bottom of the water.
D	The long Gallery.	K	The highest mark of the water.
E	The Concave or Cell.	L	Two Rocks.
F	The upper edge of the Mud.		

*An Extract of a Letter, relating an Experiment made for altering the Colour of the Chyle in the Lacteal Veins, by Martin Lister Esq;*

**T**He passage of the Chyle through the Intestines into the Lacteal Veins, is a thing hitherto demonstrated to the Eye by none. Dr. Lower ingeniously confesseth the ill success he had in trying with Aer, or with tinged Spirit of Wine; by neither of which he was able to force a passage. And *J. Valaus (Epist. de motu Chyli)* is very positive, that however the Chyle in the Intestines may be diversly coloured; yet it is still white in the Lacteal Veins. And *Diemerbroek* in his late Anatomy Published 1672. (p. 37.) affirms, *Chylum semper album inveniri in Vasis Lacteis Mesentericis & Thoracicis --- videm vero rubrum alteriusve coloris, in is a nemine habentis visum fuisse.*

Notwithstanding which, and my own former unsuccessful Tryals (*Phil. Transf. Numb. 95.*) I did not doubt but that some happy Experiment would shew the contrary; and a purposely coloured Chyle might find admittance into the Lacteal Veins though not by force, yet by the Consent and Introduction of Nature herself. The success of some late Experiments I made to this purpose, I shall here acquaint you with.

*Ex-*

*Experiment I.*

I caused a Dog to be fed, and after four hours, or thereabout; and having ready by me a clear Tincture of *Indigo*, dissolved in fair Water and filtered, I opened the *Abdomen*, and making a small Incision in the *Jejunum*, I injected an ounce or two. This done, we stich'd up the Gut, and all, again, and the Dog turned upon his Leggs. After one hour and a quarter, we cut the stitches; and then beheld a copious Distribution of *Chyle* and turgid *Lacteal Veins*; but as white as ever. And yet carefully searching the Guts, we perceived none of the Injected Liquor any where.

*Exper. II.*

Another Dog, which was kept fasting 40 hours, had a very little flesh, without water, given him, about 5 hours before the Injection of the Tincture of *Indigo*; which was performed after the same manner, as before: only it was now well warmed, and about Twelve Ounces thrown up the *Duodenum*, and down the *Ileon*. Here were empty Guts, and not the least appearance of any *Lacteal Veins* in the *Mesentery*. After full 3 hours, the Stiches were cut again (some business hindring me from doing of it sooner) and carefully examining the *Mesentery*, we found many *Lacteal Veins* of an Azure Colour; and cutting some of the biggest of them asunder, we plainly saw a thick blewish *Chyle* to issue forth, and to spread it self over the transparent *Membranes* of the *Mesentery*. This is a very truth, which the Chirurgeon I employed to assist me, in the Experiment, can well witness, whose Eyes I used, as well as my own, in carefully examining these matters.

Whence, although it hath been doubted of by some, yet is it most evident, That the *Lacteal Veins* receive, what they carry, from within the Cavity of the *Intestines*.